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(54) POLYPEPTIDE

(57)Abstract:

NEW MATERIAL: A polypeptide having a sequence wherein 29th Gly is replaced with another amino acid or is deficient in the amino acid sequence from 1st Ser to 155th Leu shown by the formula.

USE: An antitumor agent.

PREPARATION: For example, a gene encoding an amino acid sequence of human tumor necrosis factor(TNF) is cleft with a restriction enzyme to prepare a DNA fragment encoding an amino acid sequence of 1st Ser to 155th Leu shown by the formula, which is subjected to gene conversion in combination with digestion with a restriction enzyme and connection with T4DNA ligase to give a converted material wherein 29th Gly is replaced with another amino acid or is deficient. The converted material is linked to a manifestation vector, Escherichia coli is transformed with the vector and the converted material is cultured to give a polypeptide of human TNF converted material.

Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Glu Ala His Val Phe
15
Ala Asp Pro Glu Ala His Val Thr Gly Glu Lys Val Thr Leu Asp Arg Arg
20
Ala Asp Arg Leu Lys Ala Asp Gly Thr Glu Lys Arg Arg Asp Glu
25
Leu Val Val Pro Ser Glu Gly Lys Tyr Leu His Tyr Ser Glu Val
30
Glu Phe Lys Gly His Gly Asp Pro Ser Thr Glu Val Leu Lys Tyr
35
Gly Thr Lys at Arg His Ala Val Ser Tyr Glu Thr Lys Val Arg
40
Leu Lys Arg Ala His Lys Ser Pro Asp Glu Arg Glu Thr Phe Gly
45
Gly Ala Glu Ala Lys Pro Thr Thr Glu Pro His Tyr Lys Gly Gly
50
Val Phe Glu Lys Glu Lys Gly Asp Arg His Ser Asp Glu His Arg
55
Arg Pro Asp Tyr Lys Asp Phe Ala Glu Ser Gly Glu Val Tyr Phe
60
Gly His His His Leu
65

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